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APPLICATION NO.	FILED DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/041,685	03/13/1998	TERRY J. CULLINAN	P-1534-011	3660
7590	06/04/2004		EXAMINER	
Liebler Ivey Connor & Berry Floyd E. Ivey PO Box 6125 Kennewick,, WA 99336			PRINCE, FRED G	
			ART UNIT	PAPER NUMBER
			1724	27
DATE MAILED: 06/04/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/041,685	CULLINAN ET AL.
	Examiner	Art Unit
	Fred Prince	1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on September 22, 2003.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 30-42 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 30-42 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a))

* See the attached detailed Office action for a list of the certified copies not received

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date .

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

DETAILED ACTION

Specification

1. The amendment filed September 22, 2003 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: The original disclosure does not support "an adhesive or a mechanical fixing means between the vane tip (98) and the groove (150)" as disclosed on pages 11, 12, 16, and 17 of the instant specification.

Applicant is required to cancel the new matter in the reply to this Office Action.

Drawings

2. The drawings submitted are sufficient for examination purposes. However, applicant is advised that formal drawings will be required when the claims are allowed. If applicant desires, formal drawings may be submitted when replying to this Office Action.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 33-42 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter

which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The original specification provides no disclosure of a "groove comprising vane restraining member". This wording appears to suggest that the groove includes additional structure which acts to restrain the vane. It is noted that from the original specification the groove itself restrains the vane. The original specification provides no disclosure of "adhesive". Accordingly, claims 33 and 36 are rejected, and claims 34-35 and 37-42 are rejected as depending from a rejected claim.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 30-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Clyde. Clyde, directed toward a waste liquid treatment system, teaches a tube (16) receiving a vaned inner core (20) therein, wherein the tube and the core have the same axis.

7. Claims 30-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Page. Page, directed toward a waste liquid treatment system, teaches a tube (8) receiving a vaned inner core (9) therein, wherein the tube and the core have the same axis (Fig. 4).

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Page.

Page is described above. Page does not disclose providing a tube having a length less than the inner core.

It is submitted that the relative length of the inner core to the tube in the system is not seen to materially affect the overall operation of the system or to produce any new and unexpected result. As no proper showing of a new and unexpected result (e.g., comparative test data) has been provided a tube length less than the inner core length is deemed to be obvious matters of choice in design, insufficient to patentably distinguish the claims over the prior art.

10. Claims 33-42 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, first paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims. The claims should not include limitations reciting "adhesive or a mechanical fixing means between a groove and a vane tip" as no adhesive was disclosed in the original specification and there is no mechanical fixing means between the groove and the vane tip.

11. The following is a statement of reasons for the indication of allowable subject matter:

Note: Applicant is advised to ensure that the wording of claim 33 makes clear that the groove itself restrains the vane.

Per claims 33-42, while claim 32 is not patentable for the reasons provided above, in the examiner's opinion, the prior art fails to teach or fairly suggest the system having a groove which restrains the inner core within the tube. The instant invention provides the non-obvious advantage of facilitating assembly of the tube inner core at the point of use while securing the inner core in the tube.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References are cited of interest to show the state of the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred Prince whose telephone number is (571) 272-1165. The examiner can normally be reached on Monday-Thursday, 6:30-4:00; alt. Fridays 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine R. Copenheaver can be reached on (571) 272-1156. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Fred G. Prince
FRED G. PRINCE
PRIMARY EXAMINER
5/10/04